



Generell informasjon

Brønnbane navn	7324/8-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7324/8-1 (Wisting)
Brønn navn	7324/8-1
Seismisk lokalisering	inline 2800 & crossline 4116
Utvinningstillatelse	537
Boreoperatør	OMV (Norge) AS
Boretillatelse	1462-L
Boreinnretning	LEIV EIRIKSSON
Boredager	39
Borestart	10.08.2013
Boreslutt	17.09.2013
Frigitt dato	17.09.2015
Publiseringsdato	17.09.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	STØ FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	398.0
Totalt målt dybde (MD) [m RKB]	930.0
Totalt vertikalt dybde (TVD) [m RKB]	930.0
Maks inklinasjon [°]	1.6
Temperatur ved bunn av brønnbanen [°C]	29
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SNADD FM
Geodetisk datum	ED50
NS grader	73° 27' 6.18" N



ØV grader	24° 24' 15.42" E
NS UTM [m]	8152888.62
ØV UTM [m]	417497.27
UTM sone	35
NPDID for brønnbanen	7221

Brønnhistorie

General

Well 7324/8-1 was drilled on the Wisting Central prospect in the Barents Sea between the Hoop fault complex to the east and the Maud Basin to the west. The primary objective was to evaluate the Jurassic Realgrunnen Subgroup for hydrocarbons.

Operations and results

Wildcat well 7324/8-1 was spudded with the semi-submersible installation Leiv Eiriksson on 10 August 2013 and drilled to TD at 930m in the late Triassic(Carnian age) Snadd Formation. A 9 7/8" pilot hole was drilled down to 641 m to check for shallow gas. No significant problem was encountered during drilling and logging, but after permanent plugging cutting of the casing proved problematic and caused some down time. The well was drilled with bentonite spud mud down to 492 m and with Glydril mud from 492 m to TD.

The top of the reservoir, Stø Formation was entered at 662 m, only 237 m below the seafloor and contained oil. The well is located down-flanks on the structure; hence, the upper part may have a gas-cap. Due to increased claystone content and decreased porosity/permeability at the end of the coring, the oil/water contact was not clearly defined. However, log data and pressure data suggests that the Stø and Fruholmen formations are in communication and share a common OWC at 708.3 m. Oil shows were described in a Fruholmen sandstone at 728 m and in Snadd sandstones at 775 m, 784 m and 808 m. No shows were described below this depth or above top Stø Formation.

Three consecutive cores were cut in the Realgrunnen Subgroup from 662 m to 710.35 m. The total core recovery for all three cores was 47.05 m (97.3%). The core-log depth shifts were found to be +0.75 m, +1.36 m, and +0.6 m for core number 1, 2, and 3, respectively. MDT oil samples were taken at 664.54 m and 678.07 m. The reservoir temperature based on data from the MDT sampling runs was 16.35 and 17.22 °C in the Stø Formation at 664.54 m and 678.07 m, respectively. The reservoir pressure was about 68.9 bar (664.54 m) and 69.97 bar (678.07 m). The gas-oil ratio determined by PVT analysis was 50 Sm³/Sm³ and the oil gravity is 0.835g/cm³. Gas chromatographic analyses of the oil sample at 664.54 m show depletion of n-alkanes compared to iso-alkanes, suggesting slight biodegradation has occurred in the reservoir. MDT water samples were taken at 782.3 m.

The well was permanently abandoned on 17 September 2013 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
494.00	929.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	662.0	667.4	[m]
2	668.0	679.3	[m]
3	680.0	710.4	[m]

Total kjerneprøve lengde [m]	47.1
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		664.00	0.00	OIL		NO
MDT		678.00	0.00	OIL		NO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
424	NORDLAND GP
424	UNDIFFERENTIATED
500	ADVENTDALEN GP
500	KOLMULE FM
563	KOLJE FM
580	KNURR FM
590	HEKKINGEN FM
621	FUGLEN FM
662	KAPP TOSCANA GP
662	STØ FM



679	NORDMELA FM
730	FRUHOLMEN FM
772	SNADD FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
7221_7324_8_1_GCH_1	txt	0.02
7221_7324_8_1_GCH_10	txt	0.02
7221_7324_8_1_GCH_11	txt	0.04
7221_7324_8_1_GCH_12	txt	0.04
7221_7324_8_1_GCH_13	txt	0.05
7221_7324_8_1_GCH_14	txt	0.05
7221_7324_8_1_GCH_15	txt	0.02
7221_7324_8_1_GCH_16	txt	0.01
7221_7324_8_1_GCH_2	txt	0.02
7221_7324_8_1_GCH_3	txt	0.01
7221_7324_8_1_GCH_4	txt	0.02
7221_7324_8_1_GCH_5	txt	0.01
7221_7324_8_1_GCH_6	txt	0.02
7221_7324_8_1_GCH_7	txt	0.02
7221_7324_8_1_GCH_8	txt	0.01
7221_7324_8_1_GCH_9	txt	0.01

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI PPC MSIP PPC EDTC	636	912
HRLA PEX GR	636	918
IBC MSIP GR CCL	425	636
ILEF CMR EDTC	642	921
LWD - ARC VIS8	489	625
LWD - SON VIS NEOS	488	636
LWD - VIS RES	635	923
MDT GR	664	867
MDT GR	664	782
ZAIT IS PPC GR	636	928
ZOVSP	35	920





Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm ³]	Type formasjonstest
CONDUCTOR	30	488.0	36	488.0	0.00	
SURF.COND.	9 5/8	636.0	12 1/4	636.0	1.48	FIT
OPEN HOLE		930.0	8 1/2	930.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
450	1.02			Sea Water	
580	1.20	13.0		Glydril	
633	1.14	19.0		KCl/Glycol	
800	1.16	12.0		Glydril	
930	1.20	13.0		Glydril	